Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work : Detailed Estimated for Improvements to Road from Lakshmipura Main road to Singapura, in Shettyhalli Sub Division, Ward No-12

Est Cost Rs. 50.00 lakhs

Sl No	Description of Items	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 500-1: Cleaning the existing WBM road surface including removing of binding materials and other foreign matter with wire brushes and small picks, sweeping with brooms or soft brushes and finally dusting with old gunny bags and / or compressed air, to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH / Chapter 5 (Page No.171, Item No. 21.1)PWD SR 2011-12								
	Singapura Layout Main road	Sqm	2	180.00	2.50		900.00		
							900.00	10.04	9039.60
	Basic Rate	9.30							
	Area Weightage 8%	0.74							
		10.04							
2	KSRRB 400.6.1 : Construction of granular sub-baseby providing close graded material, mixing in a mechanical mix plant at OMC , carriage of mixed Material to work site, spreading in uniform layers with mortor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specification. A.Plant Mix Method. Close graded granual sub-base material as per 400-1 For Grading - I Material. MORTH Chapter 4 (Page No.163, Item No. 20.4.1)PWD SR 2011-12								
	Singapura Layout Main road	Cum	1	180.00	2.50	0.20	90.00		
							90.00	983.88	88549.20
	Basic Rate	911.00							
	Area Weightage 8%	72.88							
		983.88							
3	KSRRB M400.17 : Providing, laying, spreading and compacting graded stone aggregates to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. MORTH Specification No.406 (Page No.166, Item No. 20.18) PWD SR 2011-12								
	Singapura Layout Main road	Cum	1	180.00	2.50	0.20	90.00		
							90.00	1060.56	95450.40
	Basic Rate	982.00							
	Area Weightage 8%	78.56							
		1060.56							

4	KSRRB 400-1.3: Carriage of mixed materials 10 Kms (page No.182)								
	Qty. vide item No.(2) + (3) + (6)	Cum					235.80		
							235.80	52.11	12287.54
	Basic Rate	48.25							
	Area Weightage 8%	3.86							
		52.11							
5	KSRRB 500-10 : Tack Coat:- Providing and applying tack coat with bitumen emulsion using emulsion pressure distributor at the rate of 0.20 kg per sqm on the prepared bituminous/granular surface cleaned with mechanical broom complete as per specifications using bitumen emulsion. MORTH Specification No.503 (Page No.172, Item No. 21.10.1)PWD SR 2011-12								
	Qty. vide item No.4	Sqm					235.80		
							235.80	11.08	2612.85
	Basic Rate	10.26							
	Area Weightage 8%	0.82							
		11.08							
6	KSRRB M500-19 : Providing and laying bituminous concrete with 100-120 TPH batch type HOT mix plant producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 5.4 to 5.6% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No.500.9 complete in all respects as per specifications. 30-45mm compacted thickness (Grading II) with 6% Bitumen 80/100 MORTH Specification No.509 (Page No.175, Item No. 21.22.1)PWD SR 2011-12								
	Singapura Layout Main road	Cum	1	180.00	(8.0+7.5)/2	0.04	55.80		
							55.80	9111.96	508447.37
	Basic Rate	8437.00							
	Area Weightage 8%	674.96							
		9111.96							
7	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 and finished with CM 1:3 plastering and finishing cutting etc., complete. of size 450 x 200 x 400mm (Page No.28, Item No. 5.29.1)								
		Nos					1103.00		
							1103.00	290.52	320443.56
	Basic Rate	269.00							
	Area Weightage 8%	21.52							
		290.52							

8	KSRRB 300-2 : Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 metres and an average lift upto 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications. MORTH /Chapter 3 (Page No.149, Item No. 19.2)								
		Cum	1	525.00	1.20	1.50	945.00		
							945.00	87.05	82260.36
	Basic Rate	80.60							
	Area Weightage 8%	6.45							
		87.05							
9	KSRRB M2900-1: Plain cement concrete 1:3:6 mix with crushed stone aggregate 40m nominal size mechanically mixed placed in foundation and compacted by vibration including curing for 14 days compelte as per specifications.MORTH Specification No.408 (Page No.257, Item No. 34.1)								
		Cum	1	525.00	1.00	0.15	78.75		
							78.75	3645.00	287043.75
	Basic Rate	3243.00							
	Add difference cost of cement 0.22 x 600=	132.00							
	(220kgs/50kgs-4.40 bagsxRs.30.00 Diff cost/bag)	3375.00							
	Area Weightage 8%	270.00							
		3645.00							
10	KSRB 4 - 1.5 : Providing and laying in position plain cement concrete of mix M 20 with OPC cement @300 kgs, with 20 mm and down size graded granite metal coarse aggregates @ 0.64 cum and fine aggregates @ 0.43 cum with superplastisiser @ 3 lts confirming to IS 9103 - 1999 Reaffirmed - 2008, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation plinth and cills, including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 (Page No.12, Item No. 4.5)								
	Bottom slab	Cum	1	525.00	1.00	0.15	78.75		
	Side wall		2	525.00	0.15	0.90	141.75		
							220.50	4820.88	1063004.04
	Basic Rate	4404.00							
	Add difference cost of cement 0.24 x 600=	144.00							
	gs/50kgs-4.40 bagsxRs.30.00 Diff cost/bag)	4548.00							
	Area Weightage 8%	272.88							
		4820.88							
11	Providing & laying reinforced cement precast slabs of mix CC 1:1 1/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specifications								
		Sqm	1	525.00	0.90		472.50		
							472.50	1963.60	927801.00
	approved Rate of Precast slab	1963.60							

	Data Rate for precast slab of 100mm thick								
12	KSRB 4.9.2 : Providing TMT steel reinforcement for R.C.C. work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No.KBS 4.6.3 (Page No.19, Item No. 4.46)								
		Qtl		220.50	kg/cum	65.00	14332.50		
							143.33	7211.75	1033624.07
	Basic Rate	5910.00							
	Add Extra rate for steel	893.54							
	Total	6803.54							
	Area Weightage 8%	408.21							
		7211.75							
13	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square/rectangular/polygon in plan including cost of all materials, labour complete as per specifications.Specification No.KBS 4.6.2 (Page No.17, Item No. 4.32)								
	Sides	Sqm	2x2	525.00		0.90	1890.00		
							1890.00	275.40	520506.00
	Basic Rate	255.00							
	Area Weightage 8%	20.40							
		275.40							
14	KSRRB M800-11.13 : Road Marking with Hot Applied Thermoplastic Compound with Reflectrising Glass Beads on Bituminous Surface:- Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications.MORTH Specification No.803 (Page No.193, Item No. 24.15)								
		Sqm	3	180.00		0.10	54.00		
							54.00	429.84	23211.36
	Basic Rate	398.00							

	Area Weightage 8%	31.84							
		429.84							
15	Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work. lead 10 Km a) Basic rate for haulage of materials as per item No 17 4/KSRRB : M100-4.1 ..... Rs. 2.00 Tonne/Km b) Average earth of work 1 28 Tonne/Km for Rs. 2.00/Km c) Add loading and unloading Item No. 17.1 KSRRB M 100-1 Rs. 62.20 (Page No. 147/ Item No. 18.57/1 /PWD SR 2011-12)								
	Qty Vide Item No=(9)	Cum					279.40		
	Qty Limited to						270.00	94.82	25602
	Basic Rate	25.60					270.00	94.82	25601.00
	Loading and Unloading Charges	62.20							
		87.80							
	Area Weightage @ 8%	7.02							
	Total	**94.82**							
16	Miscellaneous and unforseen Charges								348.00
								Total	**5000000**
(Rupees Fifty Lakhs Only)									

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2011-12
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Ravi N.K.
Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

A/S

ಸಂ. JC(DH)AS 293/12-13 ದಿನಾಂಕ : 17/08/12
ರೂ. 50.00 lakhs (Rupees fifty Lakhs only)
page No.03
SL No. 293

ದಿನಾಂಕ : 18/09/12
ರೂ. 50.00 Lakhs (Rupees Fifty Lakhs only)